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METHOD AND SYSTEM FOR PROCESSING MESSAGES  
IN A DISTRIBUTED COMPUTING ENVIRONMENT

ABSTRACT OF THE DISCLOSURE

5 A message processing facility provides a send  
function for sending messages to designated  
locations. The facility allows a default target for  
a message, initiates parallel execution, adds  
10 additional processes to an already parallel  
execution, determines that a problem has completed  
and performs the appropriate completion actions. The  
message processing facility enables coordination of  
the results of a network that has been widened in its  
15 parallelism, without creating subproblems. Processes  
within the parallel network do not need to be aware  
of the topology or the position of a given process  
within the topology. The width of the parallelism  
involved in a particular request is tracked, and  
therefore, the appropriate number of results expected  
can be determined automatically and dynamically.  
Therefore, despite dynamic changes in topology,  
completion can be determined without awareness of the  
processes that create the results.

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